

ABSTRACT OF THE DISCLOSURE

A system and method for converting color images divides a first image into first RGB values per pixel, determines which of the RGB colors in the first image has a greater specific gravity, converts the first RGB values into second RGB color values based on the color with the greater specific gravity, and forms a second image based on the second RGB values. The color value conversion involves allocating a first number of bits to represent the second RGB value corresponding to the color having the predetermined specific gravity and a second number of bits to represent the RGB values corresponding to remaining ones of the colors. The first and second numbers of bits are different and preferably the first number is greater than the second number. Through this system and method, an M-bit color image may be converted into an N-bit color image with greater color accuracy than other methods which have been proposed.